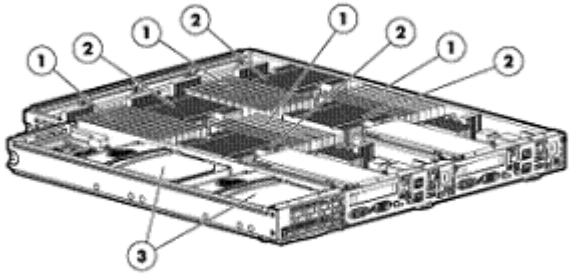
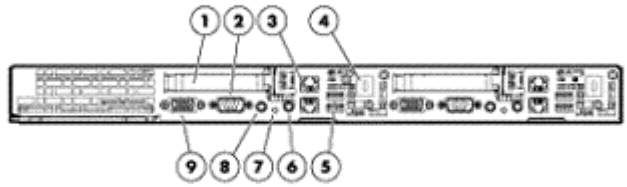
Overview





Open View:

1. 16 DDR3 DIMM slots
2. Up to two Intel® Quad-Core 5500 sequence processors
3. Two 3.5" (1 per server) non-hot plug hard drives using a quick release drive carrier

Front View:

1. Optional low profile x16 PCI-e Gen 2
2. Serial Port
3. (2) 1Gbit NIC
4. Optional Dedicated Management port
5. (2) USB Ports
6. Power Button
7. Health LED
8. UID
9. Video Port

What's New

- Support for HP Smart Array P410 and P411
- Support for 16GB DDR3 DIMM
- HP SL Universal Switch Rail Kit

At A Glance

The HP ProLiant SL2x170z is part of a new family, HP ProLiant SL6000, of HP server solutions optimized for scale-out customers to greatly reduce costs, maximize power efficiency, and maintain total flexibility. The HP ProLiant SL2x170z G6 Server is designed for maximum compute density. Each SL2x170z system board is a two socket Intel server with 16 DDR3 DIMM sockets.

NOTE: The SL2x170 include two (2) SL170 system boards per tray. The following information is for each system board.

- Processors:
  - Up to two Quad-Core Intel® processor 5500 sequence
  - Intel® 5520 Chipset
- Memory:
  - Up to 128 GB, using PC3-8500R DDR3 Registered (RDIMM) memory, operating at 800MHz when fully populated in 16 slots
  - Up to 24 GB, using PC3-10600E DDR3 Unbuffered (UDIMM) memory, operating at 1066MHz when fully populated at 2 DIMMs per Channel in 12 slots
- Internal Drive Support:
  - Support for up to two 3.5" non-hot plug Serial ATA (SATA) or Serial Attached SCSI (SAS) hard drives using a quick

release drive carrier (1 per server)
    - Support for up to four 2.5" non-hot plug Serial ATA (SATA), Serial Attached SCSI (SAS), or Solid State Drive (SSD) hard drives using a quick release drive carrier and the SFF drive cage (2 per server)
- Network Controller:
    - HP NC362i Integrated Dual Port Gigabit Server Adapter
- Storage Controllers:
    - HP Embedded SATA RAID Controller (RAID 0, 1, 10) per server node
      NOTE: Transfer rate: 3.0 Gb/s SATA
- Expansion Slots:
    - One available PCI Express Gen 2.0 slots
        - Slot 1: Low profile x16 PCI-Express 2.0
- Management:
    - HP ProLiant Onboard Administrator Powered by Lights-Out 100 with optional LO100i Advanced Licenses for Virtual KVM and Virtual Media
    - The HP ProLiant Easy Set-up CDs and ISO image downloads offer Assisted and Manual single server installation, setup, and deployment capability. Capabilities provided are:
        - AutoRun
        - Assisted Installation Microsoft Windows 2003 Server and Microsoft Windows 2008 Server.
        - OS and SW available for Manual Installation are listed on each servers' QuickSpecs
    - HP Insight Diagnostics
    - Smart Components - a self-executable software consisting of driver and firmware
    - HP Smart Update Manager - a single system and multi-server deployment tool for Windows environments that works with Smart Components to provide customers with easy-to-use GUI and Script-based deployment capacity
    - SmartStart Scripting Toolkit - an automated scalable deployment utility
    - Insight Management Agents for environmental monitoring that is similar to and consistent with that of HP ProLiant 300 series servers and above servers and that allows integration to HP Systems Insight Manager (SIM).
    - Array Configuration Utility (ACU)
    - Array Diagnostics Utility (ADU)
    - HP Insight Control for Linux (IC-Linux), a product option, delivers essential lifecycle management that can help save time and money by integrating discovery, server deployment, firmware updates & provisioning, health & performance management, remote management, and virtualization. This makes it easy to optimize your IT infrastructure through a single, simple management console. The Insight Control for Linux suite supports Linux-based servers and management consoles.
- Operating Systems and Virtualization Software Support for ProLiant Servers:
    - Supports Windows, RHEL, SLES, Solaris
- USB Ports:
    - Three USB ports / server node (two front, one internal)
- Optical Drive:
    - External support only
- Power Supply:
    - The 2U chassis supports three power supply options:
        - Common Slot Power Supplies enable power capping and hot-pluggability
        - HP 1200W CS HE Silver Power Supply (Hot Plug, Autoswitching) (optional)
        - HP 750W CS HE Gold Power Supply (Hot Plug, Autoswitching) (optional)
        - HP 460W CS HE Gold Power Supply (Hot Plug, Autoswitching) (optional)
- Form Factor:
    - HP ProLiant z6000 G6 Chassis - 2U
    - HP ProLiant SL2x170z Server - 1U Server Tray
- Warranty:
    - This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for one year from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services

are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty.

NOTE: Server Warranty includes 1 year Parts, 1 year Labor, 1-year on-site support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.

Standard Features

NOTE: For the Standard Features shipped in the Factory Integrated Models, please see the "Configuration Information - Factory Integrated Models" section.

Processor One of the following depending on Model	Quad-Core Processor Intel® Xeon® Processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3) Intel® Xeon® Processor X5560 (2.8 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo, 2/2/3/3) Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo, 2/2/3/3) Intel® Xeon® Processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) Intel® Xeon® Processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) Intel® Xeon® Processor L5530 (2.40 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2) Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2) Intel® Xeon® Processor L5506 (2.13 GHz, 4MB L3 Cache, 60W, DDR3-800) Intel® Xeon® Processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800) Dual Core Processors Intel® Xeon® Processor E5502 (1.86 GHz, 4MB L3 Cache, 80W, DDR3-800) NOTE: HT indicates that the processor model supports Intel® Hyper-Threading Technology NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 4, 3, 2, and 1 cores active. NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. NOTE: For the Intel 5500 Series, the letter preceding the model number indicates the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream), and "L" denotes Lower Wattage. NOTE: Up to 2 processors supported. Mixing different processor models is not supported.
Upgradeability	Upgradeable to two processors
Chipset	Intel® 5520 Chipset NOTE: For more information regarding Intel chipsets, please see the following URL: http://www.intel.com/products/server/chipsets/
Cache Memory One of the following depending on Model	8 MB (1 x 8MB) Level 3 cache NOTE: All processor models except for those identified below. 4 MB (1 x 4MB) Level 3 cache NOTE: For processors L5506, E5504 and E5502.
Memory Protection	Advanced memory protection

Standard Features

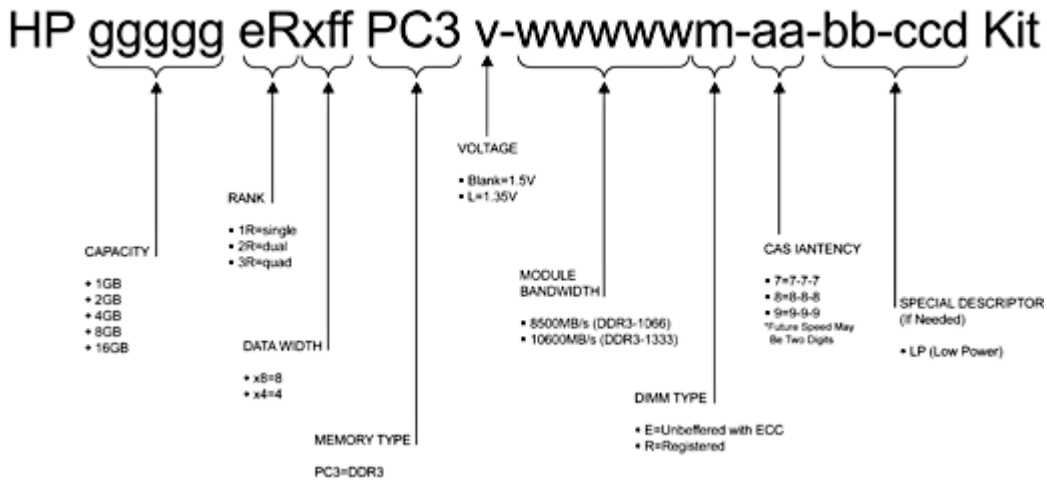
Memory

Type	DDR3 Registered (RDIMM) or Unbuffered (UDIMM)
Standard (per server tray)	6 GB (3 x 2 GB) UDIMMs
Maximum (RDIMM) (per server tray)	128 GB (16 x 8 GB) for Registered Memory configurations
Maximum (UDIMM) (per server tray)	24 GB (12 x 2 GB) for Unbuffered Memory configurations

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 1333MHz, 1066MHz, or 800MHz. Please see the Online Memory Configuration Tool at: www.hp.com/go/ddr3memory-configurator.

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient.

DDR3 memory options part number decoder



Network Controller

HP NC362i Integrated Dual Port Gigabit Server Adapter

Expansion Slots

Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
1	PCI-Express 2.0	x16	x16	Low Profile	3.3 volts

** Indicates the number of physical electrical lanes running to the connector.

Storage Controller

HP Embedded SATA RAID Controller (RAID 0, 1, 10) per server node

NOTE: Transfer rate: 3.0 Gb/s SATA.

NOTE: A HP Smart Array controller is required for SAS Hard Drives

NOTE: An external diskette drive, USB floppy drive key or virtual FDD using LO100 Advanced Pack is needed to install storage controller drivers during a Windows operating system installation from a CD.

Standard Features

Storage	Optical Drives	DVD / CD drives via USB only
	Diskette Drives	Via USB only
	Drive Bays	None ship standard
		Up to 2 Non-hot plug SATA or SAS 3.5" drives (1 drive for each system board)
		Up to 4 Non-hot plug SATA, SAS, or SSD 2.5" drives (requires SFF drive cage) - (2 drives for each system board)

Maximum Internal Storage	Non-Hot Plug SATA 3.5"	2.0TB	2 x 1TB (1 drive for each system board)
	Non-Hot Plug SAS 3.5"	600GB	2 x 300GB (1 drive for each system board)
	Non-Hot Plug SATA 2.5"	2TB	4 x 500GB (2 drives for each system board)
	Non-Hot Plug SAS 2.5"	1.2TB	4 x 300GB (2 drives for each system board)
	Non-Hot Plug SSD 2.5"	480GB	4 x 120GB (2 drives for each system board)

Interfaces	Parallel	None
	Network RJ-45	2 10/100/1000 NIC ports (1 NIC shared for the HP ProLiant Lights Out 100i Remote Management)
	Serial	1
	Graphics	1
	USB	3 (two front, one internal) NOTE: Please see the following URL for additional information regarding USB support: http://h18004.www1.hp.com/products/servers/platforms/usb-support.html.
	Management	1 Optional Dedicated LO100i Management Port
	Health LED	1 front per server node
	Power	1 front per server node
	UID	1 front per server node

Graphics	32MB shared supporting 1600x1200x16M resolution

Form Factor	HP ProLiant z6000 G6 Chassis - 2U Chassis can support up to two SL2x170z server trays in the 2U chassis. This equals a total of four (4) SL170 system boards
	HP ProLiant SL2x170z G6 Server - 1U server tray with two (2) SL170 system boards

Standard Features

Embedded Manageability	HP ProLiant Onboard Administrator Powered by LO100 with LO100i Advanced Licenses	HP ProLiant Onboard Administrator Powered by Lights-Out 100 is standard with this server and has LO100i Advanced Licenses for Virtual KVM and Virtual Media available as options. Standard Features: • Embedded IPMI standard reporting • System event log access • Remote Serial console (serial redirection) • Browser, Telnet access • SMASH-CLP compliant • IPMI 2.0 compliant • DCMI 1.0 compliant • Secure Socket Layer Encryption • Secure Shell Encryption Licensed Features • Virtual media (Floppy, CD, USB 2.0) with Advanced License • Virtual KVM with Advanced License
HP Insight Control management software	HP Insight Control for Linux	HP Insight Control for Linux (IC-Linux), as a product option, delivers essential lifecycle management that can help save time and money by integrating discovery, server deployment, firmware updates & provisioning, health & performance management, remote management, and virtualization. This makes it easy to optimize your IT infrastructure through a single, simple management console. The IC-Linux suite installs and licenses software modules that are integrated into HP System Insight Manager (HP SIM). HP Insight Control for Linux serves environments requiring Linux-based management consoles. See www.hp.com/go/ic-linux. HP Insight Control for Linux includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, please visit: http://www.hp.com/services/insight

Standard Features

Core Infrastructure Management	HP Insight Rapid Deployment software	HP Insight Rapid Deployment software (RDP) extends HP Systems Insight Manager with a complete deployment solution for HP ProLiant servers. RDP provides a central location (running on a Windows CMS) to configure server hardware, deploy Windows, Linux and VMware ESX operating environments and install HP ProLiant Support Pack drivers using images and scripted profiles. For more information, visit: http://www.hp.com/go/rdp.
	HP Systems Insight Manager	HP Systems Insight Manager (HP SIM) provides a unified, secure and extensible standards-based environment to centrally manage servers, storage and other infrastructure devices, (both HP and non-HP) across multiple operating system platforms. For additional information, please see: http://www.hp.com/go/insight.
	Subscriber's Choice	Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides software and driver change notifications for ProLiant products. Sign up at: http://www.hp.com/go/subscriberschoice and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis.
	ROMPaq, software and latest drivers	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options; downloaded from Software and Drivers download pages website at: http://www.hp.com/go/support and from www.hp.com/servers/easysetup. Contains the following: • HP Insight Management Agents for Systems Insight Manager (SIM) Integration • HP Systems Management Homepage • Array Configuration Utility (ACU) • Array Diagnostics Utility (ADU) • HP Insight Diagnostics

Industry Standard Compliance	ACPI V2.0 Compliant PCI 2.2 Compliant PXE Support WOL Support Microsoft® Logo certifications IPMI 2.0 DCMI 1.0 SMASH CLP compliant
Security	Power-on password Setup password Diskette boot control Secure Sockets Layer (SSL) Secure Shell (SSH)

Standard Features

Security - Trusted Platform Module	Trusted Platform Module option kit The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. NOTE: For more information about TPM, including a white paper, go to: http://www.hp.com/go/TPM NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment. NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or loosing the key could result in data loss.
Server Power Cords	One 6' Highline (IEC-IEC) power cord ships standard NOTE: HP ProLiant SL servers are primarily connected to PDU's in data center racks so they ship standard with only a PDU power cord (416151-B21). If a user wishes to power a ProLiant SL server using a 110V receptacle (NEMA-15), the NEMA power cord (227099-001) must be ordered separately. NOTE: If customers require a local power cord, they can check the power cord matrix for the appropriate cord. Please see the following power cord matrix: http://www.hp.com/go/powercordmatrix.
UPS and PDU Power Cord Matrix	Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.
Power Supply	HP has a new design for ProLiant power. The new Common Slot Power Supply bay. This design provides the customer with commonality in power supplies across multiple platforms to save on the cost of spares and allows HP to offer multiple power solutions to fit the customers' needs. Many HP ProLiant Servers come with Common Slot, High Efficiency and Right-Size Power Supplies. Common Slot (CS) designates commonality of the power supply across multiple ProLiant servers. HP's new Common Slot power supplies are designed for highest efficiency to provide power efficiency without degrading performance of the ProLiant. Power Supplies will have efficiency ratings up to 92%. There are three Right Size power options available, depending on the configuration of your server. To make sure you select the correct power supply to meet your configuration, we suggest that you use the HP Power Calculator to decide the "Right-Size" for your configuration. All HP Common Slot power sources are UL, CE Mark Compliant, Hot Plug and Redundant (redundancy dependent on node configurations).

Standard Features

Common Slot ProLiant	It is highly recommended that you use the HP Power Calculator in defining the "Right-Size" power supply for your needs. HP offers three Power Supply Options: • HP 460Watts, Common Slot,92% Efficiency • HP 750Watts, Common Slot, 92% Efficiency • HP 1200Watts, Common Slot, 90% Efficiency The HP ProLiant Common Slot Power supplies meet multiple Energy Efficiency Initiatives: Climate Savers Computing Initiative GOLD and ECOS Consulting 80PLUS GOLD for the 460w and 750w Power Supplies and Climate Savers Computing Initiative Silver, ECOS Consulting 80PLUS Silver for 1200w Power Supply. HP has also been working with the EPA on developing an ENERGY STAR? Computer Server specification and plans on offering models that meet the requirements when they are published. Please visit the ENERGY STAR website at: www.energystar.gov for updates on the specification development process and approved platforms. Optional power supplies can be purchased through power supply option kits (see Power Supply Options for part numbers).
System Fans	4 system fans ship standard in z6000 chassis - N+1 redundant
Operating Systems and Virtualization Software Support for ProLiant Servers	Microsoft Windows Server Microsoft Windows Server Hyper-V Microsoft HPC Server 2008 Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Solaris VMware ESX Citrix Essentials for XenServer NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://www.hp.com/support/SL2x170zG6.

Standard Features

Rack Airflow Requirements

Rack 10000 G2 series Cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 G2 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 5,350 sq cm (830 square inches) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 7 cm (2.75 inches)

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: www.hp.com/servers/SL2x170z.

Rack Support

HP ProLiant SL2x170z G6 models have two different rail kits to choose from:

- 10U bulk rail kit - Used to fit in HP 10000 series racks
  - One 10U bulk rail kit will hold up to five z6000 chassis, thus ten SL2x170z G6 server trays for a total of twenty system boards
- 2U rail kit - Used to fit in 3rd party racks or to sell one z6000 chassis at a time
  - One 2U rail kit will hold one z6000 chassis, thus two SL2x170z servers for a total of four system boards

For additional information, please visit: www.hp.com/go/rackandpower.

Factory Express Portfolio for Servers and Storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.

Standard Features

HP Enterprise Configurator	The HP eConfigure Enterprise Configurator now provides factory default racking for our HP hardware portfolio. This approach is aligned with our strategic direction to meet the needs and expectations of our valued customers. If you require "custom" rack configuration, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator
Service and Support	HP Care Pack Services provide total care and support expertise with committed response designed to meet your IT and business needs. HP Care Pack Services provide total care and support expertise with committed response designed to meet your IT and business needs. HP Care Pack services include coverage for the HP branded hardware options qualified for the server that are purchased at the same time or afterward and internal to the enclosure. It also includes the 22" and smaller external monitors and tower UPS options up to 3kVA. These items will be covered at the same service level and for the same coverage period as the server. Coverage of UPS Battery is not included and standard warranty terms & conditions apply. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack. To fully capitalize on your HP ProLiant servers' capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi vender support solutions provides a range of support services designed to meet the varying needs of business. Whether an SMB or large global corporation HP has a ProLiant server support offer to help you speedily deploy and maximize system uptime. Recommended Service - Simplify ProLiant solution implementation, maintenance and management. • Support Service - 3 Year, 9x5 Next Business Day coverage, excluding HP holidays only • Deployment Service - Hardware Installation only Enhanced Service - Optimize service level to increase IT performance and availability • Support Service - 3 Year 13x5 Same Business Day, 4-Hour response coverage • Deployment Service - Installation and Start-up only Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. For a complete listing of service offerings and information visit: http://www.hp.com/services/proliantservices http://www.hp.com/services/carepack

HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for the SL2x170z G6 under the Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand, Gigabit Ethernet or Myrinet Interconnects:
http://www.hp.com/techservers/clusters/ucp/index.html

HPC Interconnects	InfiniBand	PCI-Express adapters
	Gigabit Ethernet	Use embedded ports

Non-Hot Plug Serial ATA (SATA) Model

NOTE: Non-Hot Plug models are not upgradeable to Hot Plug.
NOTE: A rail kit is not included in model - this allows for the purchase of the right size rail kit.
NOTE: This Model includes two HP ProLiant SL2x170z Server trays. Each server tray includes two SL170 system boards. Specs below represent configuration of each system board.

HP ProLiant SL2x170z G6, 2 trays, L5520, 6GB 539610-001	Processor(s)	(1) Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2)
	Cache Memory	8MB shared L3 cache
	Memory	6GB (3 x 2GB) PC3-10600E (UDIMM)/Server tray
	Network Controller	HP NC362i Integrated Dual Port Gigabit Server Adapter
	Storage Controller	Embedded SATA RAID 0, 1, 10
	Hard Drive	Optional SATA
	Internal Storage	Up to 1 large form factor Non-Hot Plug drives using quick release carrier
	Power Supply	750W
	Fans	4 system fans ship standard in z6000 chassis - N+1 redundant
	Form Factor	One HP ProLiant z6000 G6 Chassis Two HP ProLiant SL2x170z G6 Server

NOTE: This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for additional information.
NOTE: HP does not allow factory integration of options into standard models listed above. Configure-to-order servers must start with a CTO Chassis.
NOTE: FIO indicates that this option is a Factory Installable Option.

Step 1: Base Configuration (choose one from each list unless otherwise noted)

Chassis	HP ProLiant z6000 G6 Chassis NOTE: Ships with 2U chassis and 4 fans.	538080-B21
Server Nodes	HP ProLiant SL2x170z G6 Server board 1	570149-B21
	HP ProLiant SL2x170z G6 Server board 2 NOTE: It is required that 2 server trays are purchased - The purchase of board 1 and 2 equals one server tray. NOTE: Must select quantity 2 of both Server Node part numbers.	570150-B21
Rail Kits	HP ProLiant z6000 G6 2U rail kit NOTE: 2U rail kit used for HP or 3rd part racks - allows addition of one z6000 chassis at a time.	570226-B21
	HP ProLiant z6000 G6 10U Bulk rail kit NOTE: 10U rail kit used for HP racks ONLY - allows addition of five z6000 chassis at a time.	570227-B21
Power Supplies	NOTE: Refer to HP Power Advisor when selecting a power supply for your configuration, www.hp.com/go/hppoweradvisor. Many HP ProLiant Servers now offer new power options, including Common Slot Power Supplies. These power supplies come in multiple power ratings and higher efficiency levels to offer the Right Size solution to fit your configuration. This provides improved power delivery and the advantage of reclaiming lost power. Prior to making a power supply selection it is "highly recommended" that the "HP Power Advisor" is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at "www.hp.com/go/proliant-energy-efficient" or www.hp.com/go/hppoweradvisor	
	HP 460W CS HE Gold Power Supply	503296-B21
	HP 750W CS HE Gold Power Supply	512327-B21
	HP 1200W CS HE Silver Power Supply	500172-B21

Step 2: Choose Required Node Options (only one of the following from each list unless otherwise noted)

Processors	Quad-Core Processors	
	Intel® Xeon® processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3), FIO Base NOTE: If 2 processors are desired, select one 570454-L21 and one 570454-B21.	570454-L21
	Intel® Xeon® processor X5560 (2.8 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3), FIO Base NOTE: If 2 processors are desired, select one 588193-L21 and one 588193-B21.	588193-L21
	Intel® Xeon® processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3), FIO Base NOTE: If 2 processors are desired, select one 570456-L21 and one 570456-B21.	570456-L21
	Intel® Xeon® processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2), FIO Base NOTE: If 2 processors are desired, select one 570458-L21 and one 570458-B21.	570458-L21
	Intel® Xeon® processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2), FIO Base NOTE: If 2 processors are desired, select one 570481-L21 and one 570481-B21.	570481-L21
	Intel® Xeon® processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800), FIO Base NOTE: If 2 processors are desired, select one 570480-L21 and one 570450-B21.	570450-L21
	Intel® Xeon® processor L5530 (2.4 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2), FIO Base NOTE: If 2 processors are desired, select one 586603-L21 and one 586603-B21.	586603-L21
	Intel® Xeon® processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2), FIO Base NOTE: If 2 processors are desired, select one 570485-L21 and one 570485-B21.	570485-L21
	Intel® Xeon® processor L5506 (2.13 GHz, 4MB L3 Cache, 60W, DDR3-800), FIO Base NOTE: If 2 processors are desired, select one 570483-L21 and one 570483-B21.	570483-L21
	Dual-Core Processors	
	Intel® Xeon® Processor E5502 (1.86 GHz, 4MB L3 Cache, 80W, DDR3-800), FIO NOTE: If 2 processors are desired, select one 571707-L21 and one 571707-B21.	571707-L21
	NOTE: HT indicates that the processor model supports Intel® Hyper-Threading Technology. NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 4, 3, 2, and 1 cores active. NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. NOTE: For the Intel 5500 Series, the letter preceding the model number indicates the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.	

Memory	Registered DIMMs (RDIMMs)	
	HP 2GB 2Rx8 PC3-10600R-9 Kit	500656-B21
	HP 4GB 2Rx4 PC3-10600R-9 Kit	500658-B21
	HP 4GB 4Rx8 PC3-8500R-7 LP Kit	500660-B21
	HP 8GB 2Rx4 PC3-10600R-9 Kit	500662-B21
	HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21
	HP 16GB 4Rx4 PC3-8500R-7 Kit	500666-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	NOTE: Maximum 12 DIMMs supported per node.	
	HP 1GB 1Rx8 PC3-10600E-9 Kit	500668-B21
	HP 2GB 2Rx8 PC3-10600E-9 Kit	500670-B21
	NOTE: For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.	
	NOTE: There is a maximum support limitation of 8 ranks per memory channel (maximum of 2 quad rank DIMMs per channel)	
	NOTE: Memory Min and Max depends on number of processors and type of memory:	
	1. Processor -> R-Dimm: Min 1 // Max 6 U-Dimm: Min 1 // Max 12 2. Processors -> R-Dimm: Min 2 // Max 6 U-Dimm: Min 2 // Max 12	
Hard Drive	NOTE: The hard drives use a quick release carrier.	
	NOTE: One 2 Drive SFF Drive Cage (582657-B21) is required when installing 2 SFF (2.5in) drives	
	NOTE: When Adding SAS Drives one of the following cable kits needs to be ordered depending on which SAS controller installing - HP P212 SAS 4HDD Cable Kit 574001-B21 or HP P410 SAS 4HDD Cable Kit 583997-B21.	
	SAS Enterprise (ENT) Drives - with quick-release (QR) carrier	
	HP 600GB 6G SAS 15K 3.5in QR DP ENTHDD	574758-B21
	HP 300GB 6G SAS 15K 3.5in QR DP ENT HDD	585980-B21
	HP 300GB 6G SAS 10K 2.5in QR DP ENT HDD	574879-B21
	SATA Entry (ETY) Drives - with quick-release (QR) carrier	
	HP 160GB 3G SATA 7.2K 3.5in QR ETY HDD	574021-B21
	SATA Midline (MDL) Drives - with quick-release (QR) carrier	
	HP 500GB 3G SATA 7.2K 3.5in QR MDL HDD	574023-B21
	HP 1TB 3G SATA 7.2K 3.5in QR MDL HDD	574025-B21
	HP 500GB 3G SATA 7.2K 2.5in QR MDL HDD	574953-B21
	HP 160GB 3G SATA 7.2K 2.5in QR MDL HDD	574893-B21
	NOTE: SATA hard drives have a 1-year warranty.	
	NOTE: The HP SATA / PW CBL SL160/170 G6 KIT (574005-B21) is needed when adding more than two 2.5" hard drives.	
	SATA Midline (MDL) Solid State Drives - with quick-release (QR) carrier	
	HP 120GB 3G SATA 2.5in QR MDL SSD	586587-B21
	HP 60GB 3G SATA 2.5in QR MDL SSD	586585-B21

Storage Controllers	HP P212/256 FIO SA Cntrlr w/Battery NOTE: HP P212 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P212 controller (574001-B21) NOTE: HP z6000 BBWC HDWR KIT is required when adding BBWC (582653-B21)	491191-B21
	HP Smart Array P410/ZM FIO Controller NOTE: HP P410 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P410 controller (583997-B21)	462860-B21
	HP Smart Array P410/256 MB w/ Battery FIO NOTE: HP P410 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P410 controller (583997-B21) NOTE: HP z6000 BBWC HDWR KIT is required when adding BBWC (582653-B21)	491195-B21
	HP Smart Array P411/256 MB w/ Battery FIO NOTE: HP z6000 BBWC HDWR KIT is required when adding BBWC (582653-B21)	491193-B21

Step 3: Choose Additional Options for Factory Integration

NOTE: For additional options, please refer to the "Core Options" and "Additional Options" section below.

NOTE: Some options may not be factory integrated. Please contact your local sales representative for additional information.

Unique Options	HP Dedicated MGT Port Kit	517405-B21
	HP I/O Riser x16 SL160/170 G6 KIT	574806-B21
	HP ProLiant z6000 Tray blank kit NOTE: This is needed to help with cooling if a tray is removed from the z6000.	574551-B21
	HP ProLiant z6000 Cable Management Kit NOTE: this is needed when using Fiber cables.	575156-B21
	1U Filler Panel Blank Mounting Bracket NOTE: This is needed to mount the 1U blanking panel back with server when the server is recessed mounted.	579069-B21
	HP P212 SAS 4HDD Cable Kit NOTE: This is required when adding SAS hard drives using the P212 controller.	574001-B21
	HP P410 SAS 4HDD Cable Kit NOTE: This is required when adding SAS hard drives using the P410 controller.	583997-B21
	HP SATA / PW CBL SL160/170 G6 KIT NOTE: This is needed when adding more than two 2.5" hard drives.	574005-B21
	HP z6000 BBWC HDWR KIT NOTE: This is required when adding BBWC.	582653-B21
	2 Drive SFF Drive Cage NOTE: This is required when adding SFF (2.5") SSD or hard drives.	582657-B21
	HP z6000 Processor / Memory Blank Kit NOTE: This is optional to give the best cooling efficiency when server trays are not configured exactly the same in the z6000 chassis.	579255-B21
Processor	Quad-Core Processors	
	Intel® Xeon® Processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)	570454-B21
	Intel® Xeon® Processor X5560 (2.8 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)	588193-B21
	Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)	570456-B21
	Intel® Xeon® Processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)	570458-B21
	Intel® Xeon® Processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)	570481-B21
	Intel® Xeon® Processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800)	570450-B21
	Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2)	586603-B21
	Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2)	570485-B21
	Intel® Xeon® Processor L5506 (2.13 GHz, 4MB L3 Cache, 60W, DDR3-800)	570483-B21
	Dual-Core Processors	
	Intel® Xeon® Processor E5502 (1.86 GHz, 4MB L3 Cache, 80W, DDR3-800)	571707-B21
	NOTE: HT indicates that the processor model supports Intel® Hyper-Threading	

Technology.
NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 4, 3, 2, and 1 cores active.
NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.
NOTE: For the Intel 5500 Series, the letter preceding the model number indicates the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.

Memory	Registered DIMMs (RDIMMs)	
	HP 2GB 2Rx8 PC3-10600R-9 Kit	500656-B21
	HP 4GB 2Rx4 PC3-10600R-9 Kit	500658-B21
	HP 4GB 4Rx8 PC3-8500R-7 LP Kit	500660-B21
	HP 8GB 2Rx4 PC3-10600R-9 Kit	500662-B21
	HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21
	HP 16GB 4Rx4 PC3-8500R-7 Kit	500666-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	NOTE: Maximum 12 DIMMs supported per node.	
	HP 1GB 1Rx8 PC3-10600E-9 Kit	500668-B21
	HP 2GB 2Rx8 PC3-10600E-9 Kit	500670-B21
	NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient. NOTE: There is a maximum support limitation of 8 ranks per memory channel (maximum of 2 quad rank DIMMs per channel).	
Hard Drives	NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. NOTE: Hard drives have either a one year or three year warranty. NOTE: The hard drives use a quick release carrier. NOTE: One 2 Drive SFF Drive Cage (582657-B21) is required when installing 2 SFF (2.5in) drives NOTE: When adding SAS Drives one of the following cable kits needs to be ordered depending on which SAS controller installing - HP P212 SAS 4HDD Cable Kit 574001-B21 or HP P410 SAS 4HDD Cable Kit 583997-B21.	
	SSAS Enterprise (ENT) Drives - with quick-release (QR) carrier	
	HP 600GB 6G SAS 15K 3.5in QR DP ENTHDD	574758-B21
	HP 300GB 6G SAS 15K 3.5in QR DP ENT HDD	585980-B21
	HP 300GB 6G SAS 10K 2.5in QR DP ENT HDD	574879-B21
	SATA Entry (ETY) Drives - with quick-release (QR) carrier	
	HP 160GB 3G SATA 7.2K 3.5in QR ETY HDD	574021-B21

Core Options

	SATA Midline (MDL) Drives - with quick-release (QR) carrier	
	HP 500GB 3G SATA 7.2K 3.5in QR MDL HDD	574023-B21
	HP 1TB 3G SATA 7.2K 3.5in QR MDL HDD	574025-B21
	HP 500GB 3G SATA 7.2K 2.5in QR MDL HDD	574953-B21
	HP 160GB 3G SATA 7.2K 2.5in QR MDL HDD	574893-B21
	NOTE: SATA hard drives have a 1-year warranty.	
	NOTE: The HP SATA / PW CBL SL160/170 G6 KIT (574005-B21) is needed when adding more than two 2.5" hard drives.	
	SATA Midline (MDL) Solid State Drives - with quick-release (QR) carrier	
	HP 120GB 3G SATA 2.5in QR MDL SSD	586587-B21
	HP 60GB 3G SATA 2.5in QR MDL SSD	586585-B21
Networking	**Gigabit Ethernet Adapters**	
	HP NC112T PCIe Gigabit Server Adapter	503746-B21
	HP NC360T PCI Express Dual Port Gigabit Server Adapter	412648-B21
	HP NC364T PCI Express Quad Port Gigabit Server Adapter	435508-B21
	HP NC373F PCI Express Multifunction Gigabit Server Adapter	394793-B21
	HP NC373T PCI Express Multifunction Gigabit Server Adapter	394791-B21
	HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
	HP NC375T PCI Express Quad Port Gigabit Server Adapter	538696-B21
	10 Gigabit Ethernet Adapters	
	HP NC522SFP Dual Port 10GbE Server Adapter	468332-B21
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each NC522SFP adapter.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs.	
Riser Cage Options	HP I/O Riser x16 SL160/170 G6 KIT	574806-B21
Redundant Options	CAUTION: In ProLiant Servers that have more than one power slot (bay), only same size power supplies are recommended. If non-matched power supplies are inserted you will get errors and operation will fail.	
	HP 460W CS HE Gold Power Supply	503296-B21
	HP 750W CS HE Gold Power Supply	512327-B21
	HP 1200W CS HE Silver Power Supply	500172-B21
	NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.	

Additional Options

Remote Management	HP LO100i Advanced Pack, No Media 1-Server License including 1 year of 24x7 Technical Support and Updates NOTE: For additional information, please see the Lights-Out 100i QuickSpecs at: www.hp.com/go/lo100.	530521-B21
HP Insight Control	**HP Insight Control for Linux**	
	HP Insight Control for Linux, 1-server license, including one year of 24x7 Technical Support and Updates, Electronic	T9084BAE
	HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7 Technical Support and Updates	464423-B22
	HP Insight Control for Linux, Media pack (DVD) - No licenses included NOTE: Media pack DVD contains the ISO image for HP Insight Control for Linux, HP Systems Insight Manager, HP Insight Control power management, HP Insight Control virtual machine management, and an integrated installer. Servers must be acquired separately. NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux can be ordered separately, or can be downloaded at: http://www.hp.com/go/ic-linux (click on Download button). NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys. NOTE: For additional License Kits, including electronic licensing options, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/13019_na/13019_na.html	464422-B22
Rail Options	HP ProLiant z6000 G6 2U rail kit NOTE: 2U rail kit used for HP or 3rd part racks - allows addition of one z6000 chassis at a time.	570226-B21
	HP ProLiant z6000 G6 10U Bulk rail kit NOTE: 10U rail kit used for HP racks ONLY - allows addition of five z6000 chassis at a time.	570227-B21
	HP SL Universal Switch Rail Kit NOTE: This kit allows you to install HP or 3rd party switch in the same rack as SL6000.	592774-B21
	HP ProCurve 6600 rail kit NOTE: This rail kit is used to mount the ProCurve 6600 switch recessed with the z6000 chassis.	538062-B21
	CISCO 4948 rail kit NOTE: This rail kit is used to mount the CISCO 4948 switch recessed with the z6000 chassis.	574549-B21
Security	HP Trusted Platform Module Option Kit	488069-B21

Additional Options

Storage Controllers	SAS Controllers	
	Smart Array P212 Controller	
	NOTE: HP P212 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P212 controller (574001-B21)	
	HP Smart Array P212/Zero Memory Controller	462828-B21
	HP Smart Array P212/256 MB Controller	462834-B21
	Smart Array P410 Controller	
	NOTE: HP P410 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P410 controller (583997-B21)	
	HP Smart Array P410/256MB Controller	462862-B21
	HP Smart Array P410/512MB with BBWC	462864-B21
	Smart Array P411 Controller	
	HP Smart Array P411/256MB Controller	462830-B21
	HP Smart Array P411/512MB Battery Backed Write Cache	462832-B21
	Optional Upgrades	
	NOTE: HP z6000 BBWC HDWR KIT is required when adding BBWC (582653-B21)	
	256 MB Cache Module	462968-B21
	NOTE: Supported on HP Smart Array P212 Controller only.	
	512MB BBWC	462967-B21
	NOTE: Supported on HP Smart Array P410 Controller and HP Smart Array P411 Controller only.	
	Battery Kit upgrade	462969-B21
	NOTE: To enable BBWC on the 256MB cache.	
	NOTE: Supported on HP Smart Array P212 Controller.	
	NOTE: Please see the following QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13203_na/13203_na.html (Smart Array P212 Controller) http://h18000.www1.hp.com/products/quickspecs/13201_na/13201_na.html (Smart Array P410 Controller) http://h18000.www1.hp.com/products/quickspecs/13202_na/13202_na.html (Smart Array P411 Controller)	
	SCSI HBA	
	HP SC11Xe Host Bus Adapter	412911-B21
	NOTE: Recommended HBA for SCSI tape drive connect.	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/12566_na/12566_na.html (SCSI HBA)	

Additional Options

HPC Specific Options	HP IB 4X DDR PCI-e Dual Port 0 Memory HCA	483513-B21
	HP IB 4X DDR Conn-X PCI-e G2 Dual Port HCA	483514-B21
	HP IB 4X DDR PCI-e Dual Port HCA	409376-B21
	HP IB 4X DDR PCI-e DUAL PORT HCA	448397-B21
	HP IB 4X QDR CX-2 PCI-e G2 Dual Port HCA	592520-B21
	HP IB 4X DDR CX-2 PCI-e G2 Dual Port HCA	592521-B21
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_na/13078_na.html	
StorageWorks Options	StorageWorks SCSI HBA	
	HP U320e SCSI Host Bus Adapter	AH627A
	NOTE: Recommended HBA for MSL SCSI Tape Library connect.	
HP StorageWorks Modular Smart Array	MSA SAN Storage Arrays	
	HP StorageWorks 50 Modular Smart Array	364430-B21
	NOTE: Please see the QuickSpecs for additional options and configuration information at: http://h18000.www1.hp.com/products/quickspecs/12245_na/12245_na.html	
	HP StorageWorks 60 Modular Smart Array	418408-B21
	NOTE: Please see the QuickSpecs for additional options and configuration information at: http://h18000.www1.hp.com/products/quickspecs/12627_na/12627_na.html	
	HP StorageWorks 70 Modular Smart Array	418800-B21
	NOTE: Please see the QuickSpecs for additional options and configuration information at: http://h18000.www1.hp.com/products/quickspecs/12652_na/12652_na.html	
Uninterruptible Power Systems	HP Rack-mountable UPS	
	HP UPS R1500 G2 UPS	
	HP, R1.5k VA UPS, 1U	AF419A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/12507_na/12507_na.html	

Additional Options

HP Rack Series	HP Rack 5000 Series (Graphite Metallic)	
	HP 5642 Rack-Unassembled	358254-B21
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12074_na/12074_na.html	
	HP Rack 10000 G2 Series (Carbon/Graphite Metallic)	
	S10614 (14U) Rack Cabinet - Shock Pallet	292302-B22
	10642 G2 (42U) Rack Cabinet - Pallet	AF001A
	10642 G2 (42U) Rack Cabinet - Shock Pallet	AF002A
	10642 G2 (42U) Rack Cabinet - Crated	AF003A
	10636 G2 (36U) Rack Cabinet - Pallet	AF011A
	10636 G2 (36U) Rack Cabinet - Shock Pallet	AF012A
	10636 G2 (36U) Rack Cabinet - Crated	AF013A
	10636 G2 (36U) Rack Cabinet, with Extension - Shock Pallet	AF014A
	10622 G2 (22U) Rack Cabinet - Pallet	AF021A
	10622 G2 (22U) Rack Cabinet - Shock Pallet	AF022A
	10642 G2 (42U) Rack Cabinet 1200mm Deep - Shock Pallet	AF034A
	10642 G2 (42U) Rack Cabinet 1200mm Deep - Pallet	AF038A
	10842 G2 (42U) 800mm Wide Rack Cabinet - Pallet	AF041A
	10842 G2 (42U) 800mm Wide Rack Cabinet - Shock Pallet	AF042A
	10647 G2 (47U) Rack Cabinet - Pallet	AF031A
	10647 G2 (47U) Rack Cabinet 1200mm Deep - Shock Pallet	AF044A
	NOTE: Due to handling and shipping requirements, AF044A is only orderable through HP Factory Express. It is not for direct sales. Customer site surveys are required before an order is approved. CTO orders may require additional lead time.	
	10647 G2 (47U) Rack Cabinet 1200mm Deep - Pallet	AF045A
	NOTE: It is mandatory to use a shock pallet when shipping racks with equipment installed.	
	NOTE: xxxxxx-B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels).	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/12402_na/12402_na.html	
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.hp.com/go/rackandpower.	

Additional Options

HP Rack Options	Keyboards and Monitors	
	TFT7600 Rackmount Keyboard Monitor	AG052A
	1U Rackmount Keyboard with USB	AG072A
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.hp.com/go/rackandpower.	
	HP KVM Switch Options	
	2x1x16 IP Console Switch with Virtual Media	AF601A
	4x1x16 IP Console Switch with Virtual Media	AF602A
	2x16 Server Console Switch with Virtual Media	AF600A
	PS/2 Virtual Media Interface Adapter, 1 pack NOTE: Requires PS/2 and one USB port on server.	AF604A
	Server console switch 0x2x8	AF616A
	Server console switch 0x2x16	AF617A
	PS/2 Interface Adapter, 1 pack	262588-B21
	PS/2 Interface Adapter, 8 pack	262587-B21
	NOTE: Cat5e cables are required to connect Interface Adapters to Console Switches. Cat5e cables can be found at the following URL: http://www.hp.com/go/kvm.	
	HP 1x4 Console Switch	
	HP PS2 Server Console Cable, 6 foot, 2-Pack	AF611A
	HP USB Server Console Cable, 6 foot, 2-Pack NOTE: Required for supporting USB peripherals.	AF612A
	NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: http://www.hp.com/go/kvm.	
	HP Serial Console Server Options	AF613A
	HP 16 Port Serial Console Server	AF101A
	HP 48 Port Serial Console Server	AF102A
	Serial Adapter, RJ45-DB9 DCE Female, 1 Pack	AF103A
	Serial Adapter, RJ45-DB9 DCE Female, 8 Pack	AF110A
	NOTE: Cat5e cables are required to connect Serial Adapters to Serial Console Servers. Additional Serial Adapters and Cat5e cables can be found at the following URL: http://www.hp.com/go/kvm. NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: http://www.hp.com/go/kvm.	

Additional Options

Service and Support Offerings (HP Care Pack Services)	HP 1y 4h 13x5 SL6000 HW Support	UR258E
	HP 1y 4h 24x7 SL6000 HW Support	UR259E
	HP 1y 6h 24x7 CTR SL6000 HW Supp	UR260E
	HP 3y Nbd SL6000 HW Support	UR261E
	HP 3y Nbd w/DMR SL6000 HW Supp	UR262E
	HP 3y 4h 13x5 SL6000 HW Support	UR263E
	HP 3y 4h13x5 w/DMR SL6000 HW Supp	UR264E
	HP 3y 4h 24x7 SL6000 HW Support	UR265E
	HP 3y 4h24x7 w/DMR SL6000 HW Supp	UR266E
	HP 3y 6h 24x7 CTR SL6000 HW Supp	UR267E
	HP3y 6h24x7 CTRw/DMR SL6000 HW Supp	UR268E
	HP 4y Nbd SL6000 HW Support	UR269E
	HP 4y Nbd w/DMR SL6000 HW Supp	UR270E
	HP 4y 4h 13x5 SL6000 HW Support	UR271E
	HP 4y 4h13x5 w/DMR SL6000 HW Supp	UR272E
	HP 4y 4h 24x7 SL6000 HW Support	UR273E
	HP 4y 4h24x7 w/DMR SL6000 HW Supp	UR274E
	HP 4y 6h 24x7 CTR SL6000 HW Supp	UR275E
	HP4y 6h24x7 CTRw/DMR SL6000 HW Supp	UR276E
	HP 5y Nbd SL6000 HW Support	UR277E
	HP 5y Nbd w/DMR SL6000 HW Supp	UR278E
	HP 5y 4h 13x5 SL6000 HW Support	UR279E
	HP 5y 4h13x5 w/DMR SL6000 HW Supp	UR280E
	HP 5y 4h 24x7 SL6000 HW Support	UR281E
	HP 5y 4h24x7 w/DMR SL6000 HW Supp	UR282E
	HP 5y 6h 24x7 CTR SL6000 HW Supp	UR283E
	HP5y 6h24x7 CTRw/DMR SL6000 HW Supp	UR284E
	HP 3y 24x7 24h CTR SL6000 HW Supp	UR288E
	HP 3y24x7 24hCTRwDMR SL6000 HW Supp	UR289E
	HP 4y 24x7 24h CTR SL6000 HW Supp	UR290E
	HP 4y24x7 24hCTRwDMR SL6000 HW Supp	UR291E
	HP 5y 24x7 24h CTR SL6000 HW Supp	UR292E
	HP 5y24x7 24hCTRwDMR SL6000 HW Supp	UR293E
	HP Install SL6000 Service	UR285E
	HP Startup SL6000 Service	UR286E
	HP Install nonStdHrs SL6000 SVC	UR287E
	Hardware Installation, Electronic	U9520E
	HP LO100i Advanced Pack 3 year 24x7 Software Support	UM748E

NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack.

HP ProLiant SL2x170z G6 Server

NOTE: Memory configurations listed do not apply to "Factory Integrated Models".
NOTE: Each server tray includes two SL170 system boards. Specs below represent configuration of each system board.
NOTE: Chart does not represent all possible memory configurations.

DDR3 memory population guidelines

For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool:
www.hp.com/go/ddr3memory-configurator

Some DIMM installation guidelines are summarized below:

- For servers with sixteen (16) memory slots
- There are three (3) channels per processor; six (6) channels per server
- There are two (3) DIMM slots for two memory channels and one (2) DIMM slots for one memory channel; sixteen (16) total slots
- Memory channels 1 and 2 consists of the six (6) DIMMs that are furthest from the processor
- Memory channel 3 consists of the two (2) DIMMs that are closest to the processor
- DIMM slots that are white should be populated first
- Do not mix Unbuffered memory (UDIMMs) with Registered memory (RDIMMs)
- Do not install DIMMs if the corresponding processor is not installed
- If only one processor is installed in a 2CPU system, only half of the DIMM slots are available
- To maximize performance, balance the total memory capacity between all installed processors
- It is not required, but it is recommended to load the channels similarly if possible
- You can only have up to eight (8) ranks installed per channel
- You can only install two quad-rank DIMMs per channel
- You can only install two UDIMMs per channel; if available, the third slot in the channel must remain empty
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel
- Heaviest load (DIMM with most ranks) within a channel goes furthest from the chipset
- For memory mirroring mode, channel 3 must be unpopulated. Channels 1 and 2 are populated identically
- For lock-step mode, channel 3 must be unpopulated. DIMMs in channels 1 and 2 will be installed in pairs. The paired slots will be 1,4; 2,5; 3;6 on a 3DPC system or 1,4; 2,5; on a 2DPC system
- No mixing DIMM voltage; all DIMMs must be the same voltage

Memory

DIMM Type ->	Registered DIMMS (RDIMMs)				Unbuffered with ECC DIMMs (UDIMMs)	
DIMM Rank ->	Dual Rank (2R)			Quad Rank (4R)	Single Rank (1R)	Dual Rank (2R)
DIMM Capacity ->	2GB	4GB	8GB	4GB	1GB	2GB
DIMM Native Speed (MHz) ->	1333	1333	1066	1066	1333	1333
SLOTS THAT CAN BE POPULATED						
16 slot servers	16	16	16	12	12	12
MAXIMUM MEMORY CAPACITY (GB)						
16 slot servers	32	64	128	48	12	24
POPULATED DIMM SPEED (MHz)						
1 DIMM Per Channel	1333	1333	1066	1066	1333	1333
2 DIMMs Per Channel	1066	1066	1066	800	1066	1066
3 DIMMs Per Channel (on 2 channels)	800	800	800	N/A	N/A	N/A

DIMM slot and configuration diagrams

Basic memory slot & population diagram

- Population order; start with "A" first, "B" second, "C" third, etc.

16 DIMM SLOTS (8 per CPU node)					
	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	A	1	A	Chnl 1
	2	D	2	D	
	3	G	3	G	
Chnl 2	4	B	4	B	Chnl 2
	5	E	5	E	
	6	H	6	H	
Chnl 3	7	C	7	C	Chnl 3
	8	F	8	F	

Standard memory configuration (1 CPU model)

- 6GB, consisting of three (3) 2GB dual-rank PC3-10600E UDIMMs

Memory

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	A; 2GB DIMM	1	A; empty	Chnl 1
	2	D; empty	2	D; empty	
	3	G; empty	3	G; empty	
Chnl 2	4	B; 2GB DIMM	4	B; empty	Chnl 2
	5	E; empty	5	E; empty	
	6	H; empty	6	H; empty	
Chnl 3	7	C; 2GB DIMM	7	C; empty	Chnl 3
	8	F; empty	8	F; empty	

Standard memory plus optional memory (1 CPU model)

- 12GB, consisting of three (3) 2GB UDIMMs plus three (3) 2GB UDIMMs
  - 6x 2GB dual-rank PC3-10600E UDIMMs

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	A; 2GB DIMM	1	A; empty	Chnl 1
	2	D; 2GB DIMM	2	D; empty	
	3	G; empty	3	G; empty	
Chnl 2	4	B; 2GB DIMM	4	B; empty	Chnl 2
	5	E; 2GB DIMM	5	E; empty	
	6	H; empty	6	H; empty	
Chnl 3	7	C; 2GB DIMM	7	C; empty	Chnl 3
	8	F; 2GB DIMM	8	F; empty	

Standard memory replaced with optional memory (1 CPU model)
RDIMM maximum configuration

- 64GB, consisting of eight (8) 8GB dual-rank PC3-8500 RDIMMs

Memory

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	A; 8GB DIMM	1	A; empty	Chnl 1
	2	D; 8GB DIMM	2	D; empty	
	3	G; 8GB DIMM	3	G; empty	
Chnl 2	4	B; 8GB DIMM	4	B; empty	Chnl 2
	5	E; 8GB DIMM	5	E; empty	
	6	H; 8GB DIMM	6	H; empty	
Chnl 3	7	C; 8GB DIMM	7	C; empty	Chnl 3
	8	F; 8GB DIMM	8	F; empty	

Standard memory replaced with optional memory (2 CPU model)
RDIMM maximum configuration

- 128GB, consisting of sixteen (16) 8GB PC3-8500 RDIMMs

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	A; 8GB DIMM	1	A; 8GB DIMM	Chnl 1
	2	D; 8GB DIMM	2	D; 8GB DIMM	
	3	G; 8GB DIMM	3	G; 8GB DIMM	
Chnl 2	4	B; 8GB DIMM	4	B; 8GB DIMM	Chnl 2
	5	E; 8GB DIMM	5	E; 8GB DIMM	
	6	H; 8GB DIMM	6	H; 8GB DIMM	
Chnl 3	7	C; 8GB DIMM	7	C; 8GB DIMM	Chnl 3
	8	F; 8GB DIMM	8	F; 8GB DIMM	

UDIMM maximum configuration

- 24GB, consisting of twelve (12) 2GB dual-rank PC3-10600 UDIMMs

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	A; 2GB DIMM	1	A; 2GB DIMM	Chnl 1
	2	D; 2GB DIMM	2	D; 2GB DIMM	
	3	G; empty	3	G; empty	
Chnl 2	4	B; 2GB DIMM	4	B; 2GB DIMM	Chnl 2
	5	E; 2GB DIMM	5	E; 2GB DIMM	
	6	H; empty	6	H; empty	
Chnl 3	7	C; 2GB DIMM	7	C; 2GB DIMM	Chnl 3
	8	F; 2GB DIMM	8	F; 2GB DIMM	

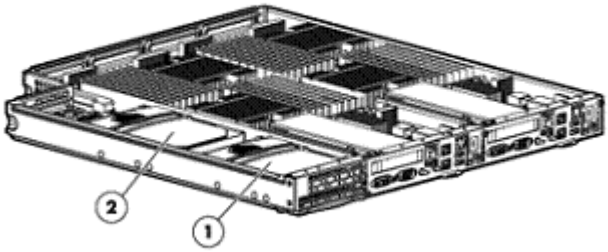
NOTE: Capacity references are rounded to the common Gigabyte values.

- 1GB = 1024MB
- 2GB = 2048MB
- 4GB = 4096MB
- 8GB = 8192MB

Following are memory options available from HP:

Memory	Registered DIMMs (RDIMMs)	
	HP 2GB 2Rx8 PC3-10600R-9 Kit	500656-B21
	HP 4GB 2Rx4 PC3-10600R-9 Kit	500658-B21
	HP 4GB 4Rx8 PC3-8500R-7 LP Kit	500660-B21
	HP 8GB 2Rx4 PC3-10600R-9 Kit	500662-B21
	HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21
	HP 16GB 4Rx4 PC3-8500R-7 Kit	500666-B21
	Unbuffered with ECC DIMMs (UDIMMs) NOTE: Maximum 12 DIMMs supported per node	
	HP 1GB 1Rx8 PC3-10600E-9 Kit	500668-B21
	HP 2GB 2Rx8 PC3-10600E-9 Kit	500670-B21
	NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient. NOTE: There is a maximum support limitation of 8 ranks per memory channel (maximum of 2 quad rank DIMMs per channel)	

1-2 One 3.5" Non-hot plug hard drive bays - Using quick release carrier for each system board for a total of 2 drives



Drive Support

Hard Drives

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
NOTE: Hard drives have either a one year or three year warranty.

SATA Entry (ETY) Drives - with Quick Release carrier

	Quantity Supported	Position Supported	Controller
160GB 3G SATA 7.2K 3.5in	Up to 2	1-2	HP Embedded SATA RAID Controller NOTE: Transfer rate: 3 Gb/s SATA.

SATA Midline (MDL) Drives with Quick Release carrier

	Quantity Supported	Position Supported	Controller
1TB 3G SATA 7.2K 3.5in 500GB 3G SATA 7.2K 3.5in	Up to 2	1-2	HP Embedded SATA RAID Controller NOTE: Transfer rate: 3 Gb/s SATA.
500GB 3G SATA 7.2K 2.5in 160GB 3G SATA 7.2K 2.5in	Up to 2	1-2	HP Embedded SATA RAID Controller NOTE: Transfer rate: 3 Gb/s SATA.

SAS Enterprise (ENT) Drives - with quick-release carrier

	Quantity Supported	Position Supported	Controller
600GB 6G SAS 15K 3.5in 300GB 6G SAS 15K 3.5in	Up to 2	1-2	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller NOTE: HP P212 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P212 controller. HP Smart Array P410/256 MB Controller

Storage

			HP Smart Array P410/512 MB BBWC Controller NOTE: HP P410 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P410 controller.
300GB 6G SAS 10K 2.5in	Up to 4	1-4	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller NOTE: HP P212 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P212 controller. HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller NOTE: HP P410 SAS 4HDD Cable Kit is required when adding SAS hard drives using the P410 controller.

SATA Midline (MDL) Solid State Drives - with quick-release carrier

	Quantity Supported	Position Supported	Controller
120GB 3G SATA 2.5in 60GB 3G SATA 2.5in	Up to 4	1-4	HP Embedded SATA RAID Controller for up to 6 NOTE: Transfer rate: 3 Gb/s SATA.

External Storage

	Quantity Supported	Position Supported	Controller
60 Modular Smart Array	Up to 4	External	HP Smart Array P212/ 256 MB Controller
	Up to 8	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller
70 Modular Smart Array	Up to 2	External	HP Smart Array P212/ 256 MB Controller
	Up to 4	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

Power Specifications

HP 460W Power Supply Part Number - AC 460W PSU	503296-B21						
Input Voltage Range (Vrms)	100 to 240						
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage	460	460	460	460	460	460	460
Nominal Input Current (A rms)	5.5	4.5	2.6	2.5	2.4	2.3	2.2
Max Rated Input Wattage Rating (Watts)	526	520	505	505	503	503	503
Max. Rated VA (Volt-Amp)	548	542	527	527	524	524	524
Efficiency (%) at Max. Rated Output Wattage	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Max. Inrush Current (A peak)	30	30	30	30	30	30	30
Max. Inrush Current duration (mS)	20	20	20	20	20	20	20
Maximum British Thermal Unit Rating (BTU-Hr)	1794	1773	1725	1725	1715	1715	1715

HP 750W Power Supply Part Number - AC 750W PSU	512327-B21						
Input Voltage Range (Vrms)	100 to 240						
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage	750	750	750	750	750	750	750
Nominal Input Current (A rms)	8.9	7.4	4.3	4.1	3.9	3.7	3.6
Max Rated Input Wattage Rating (Watts)	857	847	824	825	820	820	820
Max. Rated VA (Volt-Amp)	894	884	859	859	854	854	854
Efficiency (%) at Max. Rated Output Wattage	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Max. Inrush Current (A peak)	30	30	30	30	30	30	30
Max. Inrush Current duration (mS)	20	20	20	20	20	20	20
Maximum British Thermal Unit Rating (BTU-Hr)	2925	2892	2812	2812	2797	2797	2797

Power Specifications

HP 1200W Power Supply Part Number - AC	500172-B21						
Operational Input Voltage Range (Vrms)	100 to 240						
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage	800	900	1200	1200	1200	1200	1200
Nominal Input Current (A rms)	9.7	9.0	7.0	6.8	6.4	9.1	5.9
Max Rated Input Wattage Rating (Watts)	930	1034	1348	1348	1348	1348	1348
Max. Rated VA (Volt-Amp)	970	1079	1406	1406	1406	1406	1406
Efficiency (%) at Max. Rated Output Wattage	86	87	89	89	89	89	89
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Max. Inrush Current (A peak)	30	30	30	30	30	30	30
Max. Inrush Current duration (mS)	20	20	20	20	20	20	20
Maximum British Thermal Unit Rating (BTU-Hr)	3174	3530	4600	4600	4600	4600	4600

To review typical system power ratings use the Active Answers HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient or www.hp.com/go/hppoweradvisor

System Unit	**Dimensions** (H x W x D) (with bezel)	3.46 x 17.64 x 28.1 in (8.79 x 44.81 x 731.37 cm)	
	Weight (approximate)	Maximum (all hard drives, power supplies, and processors installed)	65.7 lb (29.8 kg)
	Input Requirements (per power supply)	Rated Line Voltage	90 to 140 VAC 180 to 264 VAC
		Rated Input Current	7.31A at 115VAC 3.6A at 230VAC
		Rated Input Frequency	47 to 63 Hz
		Rated Input Power	855W (at 100 VAC), 840.72W (at 200 VAC)
	Power Specifications	To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient	
	Power Supply Output (per power supply)	Rated Steady-State Power	653.10W (at 100 VAC), 653.08W (at 200 VAC)
	System Inlet Temperature	Operating	50° to 95° F (10° to 35° C) at sea level with an altitude derating of 1.8°F per every 1000 ft (1.0°C per every 305 m) above sea level to a maximum of 10,000 ft (3050 m), no direct sustained sunlight. Maximum rate of change is 18°F/hr (10°C/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 86°F (30°C).
		Non-operating	40° to 140° F (-40° to 60° C) Maximum rate of change is 36°F/hr (20°C/hr).
	Relative Humidity (non-condensing)	Operating	10% to 85% relative humidity (Rh), 82.4°F (28°C) maximum wet bulb temperature, non-condensing.
		Non-operating	10% to 95% relative humidity (Rh), 101.7°F (38.7°C) maximum wet bulb temperature, non-condensing.
	Altitude	Operating	10,000 ft (3050 m). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 1500 ft/min (457 m/min).
		Non-operating	30,000 ft (9144 m). Maximum allowable altitude change rate is 1500 ft/min (457 m/min).
	Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).	

		Idle	
		L_{WAd}	6.86
		L_{pAm}	52.36dBA
		Operating	
		L_{WAd}	6.89
		L_{pAm}	52.60dBA
	Emissions Classification (EMC)	FCC Rating	Class A
		Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
		NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.	

Embedded NC362i PCIe Gigabit Server Adapter	Network Interface	Integrated 10/100/1000BASE-T Transceiver Combines a triple-speed IEEE 802.3TM - Compliant Media Access Controller (MAC) with a triple-speed Ethernet transceiver.	
	Data Transfer Method	Compliant to x4 PCIe Specification	
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s
		10Base-T (Full-Duplex)	20 Mb/s
		100Base-TX (Half-Duplex)	100 Mb/s
		100Base-TX (Full-Duplex)	200 Mb/s
		1000Base-TX (Half and Full-Duplex)	2000Mb/s
	Connector	RJ-45 connector	
	Cable Support	Performs all the physical layer functions for 10BASE-T, 100BASE-T, and 1000BASE-T Ethemet on standard Category 5 UTP	

Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.